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(54) **ELECTROPHOTOGRAPHIC SENSITIVE BODY**

(57)Abstract:

PURPOSE: To enhance electric conductivity by using a conductive substrate made of a resin containing reduced potassium titanate whiskers.

CONSTITUTION: The electrophotographic sensitive body is obtained by dispersing the reduced potassium titanate whiskers as a conductive powder into the plastic resin, forming it on a cylinder, and laminating a photosensitive layer on this conductive substrate. These whiskers are single crystal fibers, each represented by $K_2O \cdot nTiO_2$, usually having resistivity as high as $10^{15} \Omega \cdot cm$, therefore, they are reduced to lessen the oxygen content to less than the stoichiometric quantity into a oxygen deficient state in order to lower the resistivity. The reduced potassium titanate whiskers are composed of dark gray acicular crystals, and they have a resistivity of $10^{-2} \sim 10^5 \Omega \cdot cm$, an average fiber length of $8 \times 10^2 \mu m$, an average fiber diameter of $0.2 \sim 0.7 \mu m$, and a specific gravity of 3.1 ~ 3.3.

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